Date Submitted: 07/30/07

Submitted by:

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Fax: 435-259-2949

Item A, Category for inclusion on the National List:

Non-organic agricultural substances allowed in or on processed products labeled as "organic," §205.606.

Item B:

1. The substance's chemical or material common name:

Latin Name: Polygonum multiflorum, syn. Follopia mlutiflora Common Plant Name: Flowery knotweed, Chinese combind

Plant Part used: Root

Common Product Name: Polygonum root powdered extract

Pinyin: He Shou Wu

CONFIDENTIAL BUSINESS INFORMATION

2. Manufacture's Contact Information

Manufacturer:

Contact:
Address:
Office:
Fax:
e-mail:

3. The intended or current use of the substance:

The dried root of *polygonum multiflorum* is used as a nutraceutical ingredient in dietary supplements, functional foods, conventional foods and is used as an ingredient in Chinese herbal medicine. Note that The Synergy Company uses the polygonum root powdered extract in relatively small amounts, intended to provide nutritional support, compared with the therapeutic or medicinal amounts commonly used in traditional Chinese herbal medicine. The roots are important in China as an ingredient of tonic soups, porridges and wines. ¹

4. Used for handling (including processing); describe mode of action:

Polygonum root powdered extract is a traditional Chinese herb used for nutritional supplementation.

5. The source of the substance and a detailed description of it's manufacturing or processing procedures from the basic component to the final product:

Polygonum is a major Chinese tonic herb with a long history of use, first described in medical literature in AD713. Polygonum is a member of the Polygonaceae family. It is a rhizomatous, climbing perennial found in northern temperate regions of E Asia. It develops an extensive root system with tubers weighting up to 2.7 kg. The plant possesses a red stems when young, and light green, ovate leaves with small white or pink tinted flowers.

The roots (tubers) are harvested in the spring or autumn from plant 3 to 4 years old and are then clean and dried. The root is shipped to a processor where it is cleaned again, milled and then placed into an extraction kettle. Water and ethanol are added to the extraction kettle and heat is applied. The extracted liquid is concentrated into essential oils and is standardized to the desired concentration. The essential oils are mixed with organic astragalus root as a carrier and are then spray dried and ground into a powder. Finally, the powder is sieved and packaged. In process and finished package testing occurs.

6. A summary of any available previous review by state or private certification programs or other organizations of the petitioned substance:

No information available.

7. Information regarding EPA, FDA, and state regulatory authority registrations:

This information does not exist.

8. The Chemical Abstract Service (CAS) number:

No assigned CAS number.

9. The substance's physical properties and chemical mode of action:

a) Chemical interaction with other substances, especially substances used in organic production:

Polygonum is a naturally occurring plant with no known adverse interaction with other substances. The only components used in the processing of polygonum extract powder are water, ethanol and organic astragalus root. The ethanol is evaporated from the powdered extract during the spray dry process.

b) Toxicity and environmental persistence:

Polygonum is a naturally occurring, biodegradable plant. The only components used in the processing of polygonum extract powder are water, ethanol and organic astragalus root. The ethanol is evaporated from the powdered extract during the spray dry process. Toxicity and environmental persistence are not an issue.

c) Environmental impacts from its use or manufacture:

As referenced above, polygonum is a naturally occurring, biodegradable plant. There are no toxic chemicals used to cultivate or process this plant, therefore environmental impact is negligible. The polygonum root is cultivated and processed without GMOs, irradiation and sewage sludge. The only components use in the processing of polygonum root extract powder is water, ethanol

and organic astragalus root. The ethanol is evaporated from the powdered extract during the spray dry process.

d) Effects on human health:

Polygonum root is commonly used in Chinese herbalism.¹ Polygonum root powdered extract was marketed in the US prior to October 15, 1994. The Dietary Supplement Health and Education Act (DSHEA) provides that supplement ingredients that were marketed in the U.S. prior to the enactment of DSHEA on October 15, 1994 are considered safe and are "grandfathered in" as safe for use. Polygonum root powdered extract is also listed in The American Herbal Products Association's "Herbs of Commerce", 2nd Edition. Note that The Synergy Company uses the Polygonum root powdered extract in relatively small amounts, intended to provide nutritional support, compared with the therapeutic or medicinal amounts commonly used in traditional Chinese herbal medicine.

e) Effects on Soil:

As referenced above, polygonum is a naturally occurring biodegradable plant. There are no toxic chemicals used to cultivate or process this plant, therefore environmental impact is negligible. The only components used in the processing of polygonum root extract powder is water, ethanol and organic astragalus root and no negative effects on the soil are known. The ethanol is evaporated from the powdered extract during the spray dry process.

10. Safety information about the substance including a Material Safety Data Sheet (MSDS): MSDS is attached as a separate document. No other data is available:

11. Research information about the substance which includes comprehensive substance research reviews and research bibliographies that present contrasting positions to those presented by the substance's inclusions on or removal from the National List:

We are unaware of any positions held in opposition to consideration of adding Polygonum powdered extract to the National List.

12. "Petition justification Statement":

Organic availability:

The Synergy's Company procurement department is continuously searching for organic forms of the non-organic ingredients used in the company's formulations. Regular searches include monthly reviews of trade journals, ingredient source contacts, internet searches and websites of both the Organic Trade Association and Quality Assurance International. We continue with R&D efforts to find substitute organic ingredients to replace non-organic ingredients in our formulations where possible. None of these recurring efforts has yielded a positive result for a functionally equivalent organic ingredient that is commercially available for polygonum extract powdered extract.

Compatibility with sustainable agriculture:

The polygonum root extract powder is cultivated and processed without GMOs, irradiation and sewage sludge. The only components used in the processing of polygonum extract powder are water, ethanol and organic astragalus root. The cultivation and harvest of the

polygonum plant and processing of the polygonum extract powder are consistent with principles of sustainable agriculture.

REFERENCES:

¹Deni Bown, (2001). The Herb Society of America New Encyclopedia of Herbs and Their Uses. Pg 212 -213.

MATERIAL SAFETY DATA SHEET

Identity (as on label): Synergized® Raw Materials Chinese Herbs Powder Extracts: Jujube fruit, Ligusticum root, Atractylodes root, Peony (white) root, Polygonum (Fo-Ti) Root, Poria Root, Ginger rhizome, Tangerine Peel, Polygala Root, Rehmannia (Cooked Root), Codonopsis,

Use: Dietary Supplement



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Section I

MANUFACTURER:

The Synergy Company of Utah, L.L.C.

ADDRESS:

2279 South Resource Blvd.

PHONE:

Moab, UT 84532 435-259-4787

DATE MSDS PREPARED:

June 29, 2007

PREPARED BY:

Tim HarkWright

Section II - Hazardous Ingredients/Identity Information

IDENTITY/COMMON NAME:

Jujube fruit, Ligusticum root, Atractylodes root,

Peony (white) root, Polygonum (Fo-Ti) Root,

Poria Root, Ginger rhizome, Tangerine Peel, Polygala

Root, Rehmannia (Cooked Root), Codonopsis.

HAZARD CLASS:

Not regulated

HAZARDOUS COMPONENTS:

None

HEALTH HAZARD:

Nuisance dust

Section III - Physical/Chemical Characteristics

BOILING POINT:

Not established

SPECIFIC GRAVITY (H2O=1):

Not established

VAPOR PRESSURE (MM HG):

Not established

MELTING POINT:

Not established

SOLUBILITY IN WATER:

Soluble

EVAPORATION RATE:

Not established

Section IV - Fire and Explosion Hazard Data

FLASH POINT:

Not established

FLAMMABLE LIMITS:

Not established

EXTINGUISHING MEDIA:

Water, dry powder or CO2

SPECIAL FIRE FIGHTING PROCEDURES:

None

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None

Section V - Reactivity Data

STABILITY:

Stable dry powder

CONDITIONS TO AVOID:

None

INCOMPATIBILITY:

None

HAZARDOUS POLYMERIZATION: HAZARDOUS DECOMPOSITION OR Will not occur

BY-PRODUCTS:

None known



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Section VI - Health Hazard Data

ROUTES OF ENTRY:

HEALTH HAZARDS: CARCINOGENICITY:

IARC MONOGRAPHS: SIGNS AND SYMPTOMS OF EXPOSURE:

OSHA REG.:

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

EMERGENCY AND FIRST-AID PROCEDURES: EYES:

SKIN: INGESTION:

INHALATION:

Inhalation, skin, ingestion

Nuisance dust; no hazard associated with ingestion

None known Not applicable

None

None known

None

Nuisance dust; respiratory irritation possible if inhaled

Irrigate thoroughly with water

Wash off thoroughly with soap and water

No hazard anticipated

Nuisance dust; remove from exposure.

If irritation persists, obtain medical attention

Section VII - Precautions for Safe Handling and Use

STEPS TO TAKE IN CASE MATERIAL IS

RELEASED OR SPILLED: WASTE DISPOSAL METHOD:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

None

Non-hazardous (dumpster or compost)

Store in well-closed containers to prevent exposure to Moisture. Store below 70 degrees F and prevent exposure

to sunlight to preserve optimal nutritional values.

Section VIII - Control Measures

RESPIRATORY PROTECTION:

VENTILATION:

PROTECTIVE GLOVES:

FYF: OTHER:

Dust mask or respirator Use local ventilation

Recommended

Goggles or safety glasses recommended

None



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Use: Dietary Supplement



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PURCHASE SPECIFICATION

Synergized® Raw Materials: Polygonum (Fo-Ti) Root, Kosher

Common Name:* Polygonum (Fo-Ti) Root Latin Name:* Polygonum multiflorum

Part ID:* TBD Plant part:* Root

Country of origin:* Required on COA

Certification We are seeking USDA NOP 100% organic & EU council regulation EEC 2092/91 organic, required:* If available, If unavailable conventional material may be substituted. Kosher Certification.

Date of MFG:* Required on COA

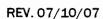
Shelf life:* 48 months from date of manufacture, unopened in original packaging

Storage:* Store away from moisture, light and heat; ≤70°F

Packaging:* 10 kg net weight, doubled food grade bags in multiple foil bags, shipping carton

| TEST | SPECIFICATION | METHOD |
|-----------------------------|--|--------------|
| ANALYTICAL | | |
| Moisture* | ≤6% | Gravimetric |
| Drying Method* | Spray-dried | |
| | | |
| IDENTITY | | |
| Color* | Beige to Brown | Organoleptic |
| Flavor* | Typical of Polygonum (Fo-Ti) Root | Organoleptic |
| Texture* | Fine powder | Organoleptic |
| Aroma* | Typical of Polygonum (Fo-Ti) Root | Organoleptic |
| | | |
| MICROBIOLOGICAL | Based on USP and EP Guidelines | |
| Standard plate count (SPC)* | ≤10,000 CFU/g | FDA/BAM |
| Coliform* | ≤100 CFU/g | AOAC 991.14 |
| E. coli* | Absent | USP |
| Salmonella* | Absent | USP |
| Staph. Aureus* | Absent | USP |
| Yeast and Mold* | ≤1,000 CFU/g | AOAC 997.02 |
| | | |
| HEAVY METAL | Based on NSF, EP, WHO and EPA Guidelines | |
| Arsenic (inorganic) (As) | ≤5.0 µg/g | ICP-MS |
| Cadmium (Cd) | ≤1.0 µg/g | ICP-MS |
| Lead (Pb) | ≤5.0 µg/g | ICP-MS |
| Mercury (Hg) | ≤0.2 µg/g | ICP-MS |
| * Required on COA | | |

Grown and Processed with out the uses of GMO, Irradiation, or Sewer Sludge.



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